

CLAIMS

1. A lead acid battery including:

an electrode plate pack comprising a plurality of negative electrode plates which each comprise a negative electrode grid having a tab and a negative electrode active material layer retained by said negative electrode grid, a plurality of positive electrode plates which each comprise a positive electrode grid having a tab and a positive electrode active material layer retained by said positive electrode grid, and a plurality of separators separating said positive electrode plate and said negative electrode plate;

a positive electrode connecting member comprising a positive electrode strap to which said tab of each positive electrode plate of the electrode plate pack is connected, and a positive electrode pole or a positive electrode connecting body provided at said positive electrode strap; and

a negative electrode connecting member comprising a negative electrode strap to which said tab of each negative electrode plate of the electrode plate pack is connected, and a negative electrode pole or a negative electrode connecting body provided at said negative electrode strap,

wherein said positive electrode grid, said negative electrode grid, said positive electrode connecting member, and said negative electrode connecting member comprise a Pb-alloy including at least one of Ca and Sn,

said negative electrode active material layer includes 0.0001 to 0.003 parts by weight of Sb per 100 parts by weight of a negative electrode active material, and

• said positive electrode grid has a lead alloy layer including 0.01 to 0.2 parts by weight of Sb per 100 parts by weight of a positive electrode active material on at least a part of a surface thereof where said positive electrode active material layer is in contact.

2. The lead acid battery in accordance with claim 1, wherein Sb content in said lead alloy layer is 0.01 to 0.15 parts by weight per 100 parts by weight of the positive electrode active material.

3. The lead acid battery in accordance with claim 1, wherein Sb content in said negative electrode active material layer is 0.0001 to 0.002 parts by weight per 100 parts by weight of the negative electrode active material.

4. The lead acid battery in accordance with claim 1, wherein said separator comprises a fiber having resistance to acids.

5. The lead acid battery in accordance with claim 4, wherein said fiber is a glass fiber or a synthetic fiber.